



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT3D-7 series
 UNIQUE ID NUMBER: 1PW003
 COMBUSTOR: Smoke fix 14-70KC
 ENGINE TYPE: TF

BYPASS RATIO: 1.4
 PRESSURE RATIO (π_{00}): 13.4
 RATED THRUST (F_{00}) (kN): 84.5

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	220.2	229.5	59.7	23.2
AS % OF ORIGINAL LIMIT	1123.7	194.5	89.4	93.5
AS % OF CAEP/2 LIMIT (NO _x)			111.7	
AS % OF CAEP/4 LIMIT (NO _x)			144.0	
AS % OF CAEP/6 LIMIT (NO _x)			161.9	
AS % OF CAEP/8 LIMIT (NO _x)			209.7	

DATA STATUS

x PRE-REGULATION
 - CERTIFICATION
 x REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
 x DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	1.254				
CLIMB OUT	85	2.2	1.032				
APPROACH	30	4.0	0.389				
IDLE	7	26.0	0.128				
LTO TOTAL FUEL (kg) or EMISSIONS (g)			482				-
NUMBER OF ENGINES							
NUMBER OF TESTS							
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				143.0	187.0	51.5	18.0
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	
TEMPERATURE (K)	
AIR HUMIDITY (kg/kg)	

FUEL

SPEC	Jet A
H/C	
AROM (%)	

MANUFACTURER: Pratt & Whitney
 TEST ORGANIZATION: P&WA
 TEST LOCATION: East Hartford, CT
 TEST DATES:

REMARKS

- Smoke fix combustor 14-70KC.
- Applicable to JT3D-7, -7A.

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)